

MARCH 1st, 1896 SUPPLEMENT

CHANDLER & FARQUHAR,

34-38 Federal Street, 131-133 Congress Street,

BOSTON, MASS.,

--- DEALERS IN---

TOOLS AND SUPPLIES,

FOR

AMATEURS, ELECTRICIANS, MACHINISTS, CARPENTERS, BLACKSMITHS, &C., &C.

Agents for the

W. F. & JOHN BARNES MACHINERY,

SCROLL SAWS, MORTISING MACHINES,
HAND RIP SAWS,

COMBINED CIRCULAR AND SCROLL SAWS, LATHES,

DRILLS, &c., &c.



ENDS NO ODDS.

OUR customers often see things in our stock not shown in any catalogue, and we trust, in making up your orders, you will not confine yourself to the articles only that we mention.

We aim to keep abreast of the times and add to our stock any article of merit, as soon as ready for the public.

A great many of these tools can be sent by mail, and we ask customers to enclose what you think would be right, including postage, and the balance, if any, will be returned to you.

We take pleasure in sending any of our catalogues to prospective customers, and shall esteem it a favor to have our goods brought to the notice of your acquaintances.

Everything, no matter how small, will receive attention.

THESE PRICES ARE NET CASH.

We keep a large assortment of

CARPENTERS' HAMMERS, PLANES, BITTS, &c.,
MACHINISTS' HAMMERS, SQUARES, CALIPERS, &c.,
BLACKSMITHS' HAMMERS, TONGS, STEEL, &c.,
JEWELERS' PLYERS, FILES, MATERIAL, &c.,
SMALL ENGINES, BOILERS, ELECTRIC MOTORS,
BATTERIES, DYNAMOS, &c., &c.

Bailey's Patent Adjustable Planes.

OVER 900,000 ALREADY SOLD.

Iron Planes.



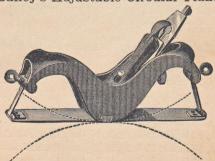
These Planes meet with universal approbation from the best Mechanics, as their extensive sale abundantly testifies. For beauty of style and finish, they are unequaled, and the superior methods for adjusting them readily in all their parts, render them economical to the owner.

No.								Each.
1.	Smooth Plane,	$5\frac{1}{2}$	inches i	n Length,	114	inch	Cutter	\$1.00
2.	Smooth Plane,	7	inches i	n Length,	15	inch	Cutter	1.25
3.	Smooth Plane,	8	inches i	n Length,	1.3	inch	Cutter	1.35
4.	Smooth Plane,	9	inches i	n Length,	2	inch	Cutter	1.45
$4\frac{1}{2}$.	Smooth Plane,	10	inches i	n Length,	23	inch	Cutter	1.70
5.	Jack Plane,	14	inches i	n Length,	2	inch	Cutter	1.70
6.	Fore Plane,	18	inches i	n Length,	23	inch	Cutter	2.15
7.	Jointer Plane,	22	inches i	n Length,	23	inch	Cutter	2.45
8.	Jointer Plane,	24	inches i	n Length,	25	inch	Cutter	2.90
9.	Block Plane,	10	inches i	n Length,	2	inch	Cutter	2.90

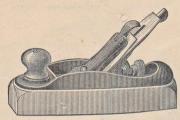


$10\frac{1}{2}$.	Carriage Makers' Rabbet Plane, 9 inches Length, 21 inch Cutter.	1.70
10.	Carriage Makers' Rabbet Plane, 14 inches Length, 21 inch Cutter.	2.00
11.	Belt Makers' Plane, 23 inch Cutter	1.35

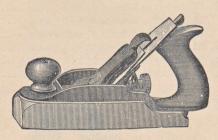
Bailey's Adjustable Circular Plane.



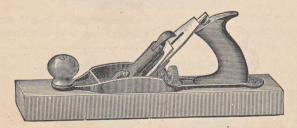
Bailey's Adjustable Wood Planes.



37.			Each.
No.	Smooth Plane	inches in Length, 13/4 inch Cutter	\$0.90
21.	Smooth Plane,	inches in Length, 13/4 inch Cutter	90
22.	Smooth Plane,	inches in Length, $1\frac{3}{4}$ inch Cutter	90
23.	Smooth Plane,	inches in Length, 2 inch Cutter	90
24.	Smooth Plane,	inches in Length, 2 mon Cutter	90
25	Block Plane.	$\frac{1}{2}$ inches in Length, $1\frac{3}{4}$ inch Cutter	90



35	Handle Smooth,	9 inches in Length, 2 inch Cutter	1.10
26	Handle Smooth.	10 inches in Length, $2\frac{3}{8}$ inch Cutter	1.25
37.	Jenny Smooth,	13 inches in Length, $2\frac{5}{8}$ inch Cutter	1.35



26.	Jack Plane,	15 inches in Length, 2 inch Cutter	1.00
27.	Jack Plane,	15 inches in Length, 2½ inch Cutter	1.13
	Fore Plane,	18 inches in Length, 2\frac{3}{8} inch Cutter	1.25
		20 inches in Length, $2\frac{3}{8}$ inch Cutter	1.25
29.	Fore Plane,	20 inches in Length, 28 mon Cuttor	1.35
30.	Jointer Plane,	22 inches in Length, 2\frac{3}{8} inch Cutter	1.35
31.	Jointer Plane,	24 inches in Length, 2 ³ / ₈ inch Cutter	
32.	Jointer Plane,	26 inches in Length, $2\frac{5}{8}$ inch Cutter	1.45
33.	Jointer Plane,	28 inches in Length, $2\frac{5}{8}$ inch Cutter	1.45
34.	Jointer Plane,	30 inches in Length, $2\frac{5}{8}$ inch Cutter	1.55
07.	O CALLEGE -	이 경우를 들어가는 것이 되었다. 그는 이 사람들이 아무리 아이들이 되었다면 하는데 아이들이 아이들이 아니는데 아이들이 아이들이 아이들이 아니는데 아니는데 아이들이 아니는데 아이들이 아니는데 아이들이 아니는데 아니는데 아니는데 아니는데 아니는데 아니는데 아니는데 아니는데	

Stanley Iron Block Planes.



No. 101.	Block Plane, 3½ inches in Length, 1 inch Cutter	Each. \$0.10
102.	Block Plane, 5½ inches in Length, 1¼ inch Cutter	
102.	Block Plane, Adjustable, $5\frac{1}{2}$ inches in Length, $1\frac{1}{4}$ inch Cutter	
110.	Block Plane, 7½ inches in Length, 1¾ inch Cutter	30
		40
120.	Block Plane, Adjustable, 7½ inches in Length, 1¾ inch Cutter	40
130.	Block Plane (Double-Ender), 8 in. in Length, 13 in. Cutter	
	This Plane has two slots, and two cutter seats. It can be used as Block Plane, or, by reversing the position of the cutter and the clam ing wedge (see dotted lines in the engraving) it can be used to plane cloup into corners, or places difficult to reach with any other plane.	a ap- ese
	Bull-Nose Rabbet Plane.	



No.		Each.
75.	Iron Stock, 4 inches in Length, 1 inch Cutter	\$0.25

Augers and Bits.



Clark's Extension Bits.



Extra Cast Steel Auger Bits.



 $\frac{15}{16}$ 34 13 9 11 38 7 Size, .30 .33 .37 .40 .17 .17 .18 .20 .23 .25 .28 .15 Price, \$.18 .15

Jenning's Pattern Auger Bits.



 $\frac{15}{16}$ 13 11 3 Size, 16 .58 .48 .54 .55 .33 .35 .40 .31 Price, \$.22 .20 22. .25 .29

We keep in stock both styles of Auger Bits to $1\frac{1}{2}$ by 16ths.

Also all sizes of

Hollow Augers,
Ship Augers,

Mill Augers, Hatchets, Carpenter's Augers,

Nail Hammers,

Bit Stocks,

Screws, Hinges, &c.

No. 1. C. S. FIRMER CHISELS. The 1 inch is 53 inches long from bolster to point BUCK BROTHERS Set of 12 (one of each), \$3.50. inches. 1/6 1/4 3/6 1/4 5/6 3/4 7/6 1 11/4 11/4 13/4 2 inches. \$ \$1.60 1.60 1.80 2.10 2.25 2.45 2.80 3.00 43/0 5.10 6.20 7.50 per dozen. No. 2. HANDLED FIRMER CHISELS. Sharp and Honed. The 1 in. is 51 in. long from bolster to point. BUCK BROS Set of 12 (one of each), \$4.80. 2 inches. 1/2 1/4 3/6 1/2 5/6 3/4 3/8 1 11/4 11/4 1 2 inches. \$\\$2.50 2.60 2.85 3.15 3.40 3.70 4.10 4.30 5.60 6.70 8.00 9.40 per dozen. The 1 inch is 51 inches long from bolster to point. No. 7. C. S. FIRMER GOUGES. Beveled Outside. BUCK BROTHERS Set of 12 (one of each), \$4.15. 1/6 1/4 3/6 1/4 5/8 3/4 7/8 1 · 1 1/4 1 1/2 1 1/4 2 inches. \$2.00 2.10 2.15 2.45 2.65 2.90 3.30 3.50 4.90 6.00 7.30 9.00 per dozen. No. 8. HANDLED FIRMER GOUGES. Beveled Outside. Sharp. The 1 in. is 5½ in. long from bolster. BUCK BROTHERS Set of 12 (one of each), \$5.80. 16 14 36 1/2 56 34 7/6 1 11/4 11/4 13/4 2 inches. S \$3.15 3.30 3.60 3.85 4.10 4.45 4.90 5.10 6.70 8.00 9.45 11.20 per dozen. Beveled Inside. The 1 m. is 5½ in. long from bolster to point. No. 9. C. S. FIRMER GOUGES. BUCK BROS 16 1/4 1/4 1/4 1/4 1/4 2 inches. Set of 12 (one of each), \$4.45. \$2.20 2.25 2.40 2.70 2.90 3.15 3.55 3.75 5.15 6.30 7.65 9.35 perdozen. Regular, Middle and Flat Sweeps. No. 10. HANDLED FIRMER GOUGES. Beveled Inside. Sharpened. The 1 in. is 5½ in. long from bolster. BUCK BROTHERS \$3.70 3.85 4.15 4.40 4.60 5.00 5.40 5.65 7.30 8.55 10.10 11.85 per dozen. Regular, Middle and Flat Sweeps. No. 11. C. S. PARING CHISELS. The 1 in. is 81/2 in. long from bolster to point. BUCK BROS inches. Set of 12 (one of each), \$5.80. No. 12. HANDLED PARING CHISELS. Sharp and Honed. The 1 in. is $8\frac{1}{2}$ iu. long from bolster. BUCK BROTHERS % ¼ ½ ½ 56 ¾ 76 1 1½ 1½ 1¾ 2 inches. S \$3.85 4.00 4.25 4.45 5.00 5.50 5.90 6.85 8.90 10.60 12.25 14.70 per dozen. Set of 12 (one of each), \$7.45. No. 13. C. S. PARING GOUGES. The 1 in. is 81 in. long from bolster. Beveled Inside. BUCK BROS 16 1/4 1/4 1/4 1/4 1/4 1/4 1/4 2 inches. Set of 12 (one of each), \$8.00. \$4.65 4.70 4.80 5.10 5.40 5.90 6.15 7.15 9.35 10.90 13.15 15.60 per dozen. Regular, Middle and Flat Sweeps. No. 14. HANDLED PARING GOUGES. Beveled Inside. Sharpened. The 1 in. is 8½ in. long from bolster. BUCK BROS 56 14 36 15 56 34 36 1 14 14 14 2 inches. Set of 12 (one of each), \$10.15. \$6.20 6.35 6.65 6.85 7.40 7.90 8.25 9.25 11.65 13.40 16.00 18.40 per dozen. Regular, Middle and Flat Sweeps.

No. 15. HANDLED PARING CHISELS. Bent Stranks,

BUCK BROTHERS



inches. 16 1/4 1/4 1/4 1/4 1/4 1/4 1/4 2 inches. \$5.25 5.65 6.00 6.30 7.20 7.90 8.50 10.00 12.90 15.55 18.60 21.60 per doz. Set of 12 (one of each), \$10.80.

C. S. TURNING CHISELS

BUCK BROS BUCK BROTHERS

2 inches - 1 11/4 11/2 134 7/8 3/8 3/3 No. 16. C. S. TURNING CHISELS. Regular.

\$2.20 2.25 2.45 2.70 3.00 3.40 3.70 4.35 5.40 7.00 8.40 10.00 per dozen. Set of 12 (one of each), \$4.90.

No. 21. C. S. TURNING CHISELS. Extra Long. \$3.00 3.00 3.20 3.45 3.75 4.10 4.50 5.10 6.20 7.70 9.20 10.70 per dozen. Set of 12 (one of each), \$5.65.

No. 23. C. S. TURNING CHISELS. Long and Strong.

\$4.10 4.15 4.30 4.50 4.85 5.40 5.80 6.75 8.25 10.50 13.50 16.75 per dozen. Set of 12 (one of each), \$7.75.

The 1 inch No. 16 is 10½ inches long, the No. 21 is 11 inches long, and No. 23 is 13 inches long over all.

C. S. TURNING GOUGES.



1/2 7/8 11/4. 11/2 13/ 36 Regular. No. 17. C. S. TURNING GOUGES.

\$2.90 2.90 3.30 3.65 3.95 4.60 5.25 5.90 7.70 10.00 11.80 14.50 per dozen. Set of 12 (one of each), \$6.70. No. 22. C. S. TURNING GOUGES. Extra Long.

\$3.65 3.70 4.00 4.40 4.70 5.35 6.00 6.70 8.45 10.80 12.55 15.20 per dozen. Set of 12 (one of each), \$7.40

No. 24. C. S. TURNING GOUGES. Long and Strong.

\$5.70 5.80 6.00 7.00 7.70 8.75 10.10 11.10 13.50 16.90 18.75 21.50 per dozen. Set of 12 (one of each), \$11.40,
The 1 inch No. 17 is 10½ inches long, the No. 22 is 11 inches long, and No. 24 is 13 inches long over all.

No. 19. HANDLED TURNING CHISELS. Ground Sharp.

BUCK BROS



inches. 16 1/4 3/6 1/2 5/6 3/4 7/6 1 11/4 11/4 11/4 2 inches.

\$4.15 4.25 4.50 5.00 5.40 6.00 6.70 7.60 8.75 10.75 13.00 16.00 per dozen. Set of 12 (one of each), \$7.85.

No. 20. HANDLED TURNING GOUGES. Ground Sharp.

BUCK BROS CAST STEEL



16 14 36 14 56 34 16 1 14 14 14 134 2 inches. \$5.35 5.50 5.65 6.25 6.65 7.50 8.55 9.45 11.35 14.10 17.00 21.50 per dozen. Set of 12 (one of each), \$10.25.

No. 18. WOOD TURNERS' PARTING OR CUTTING OFF TOOLS. The ½ inch wide measures 8½ inches over all.

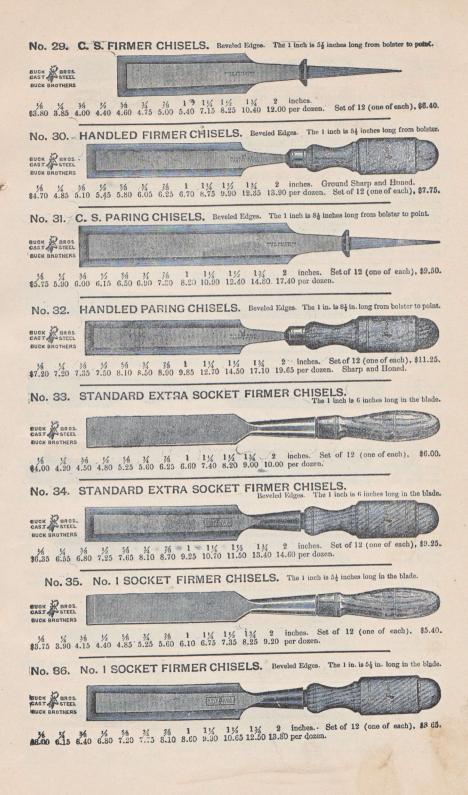
BUCK BROS CAST STEEL BUCK BROTHERS

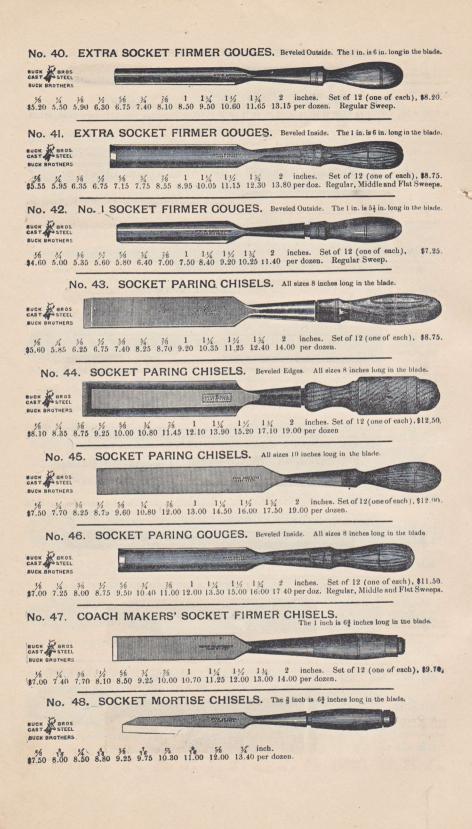


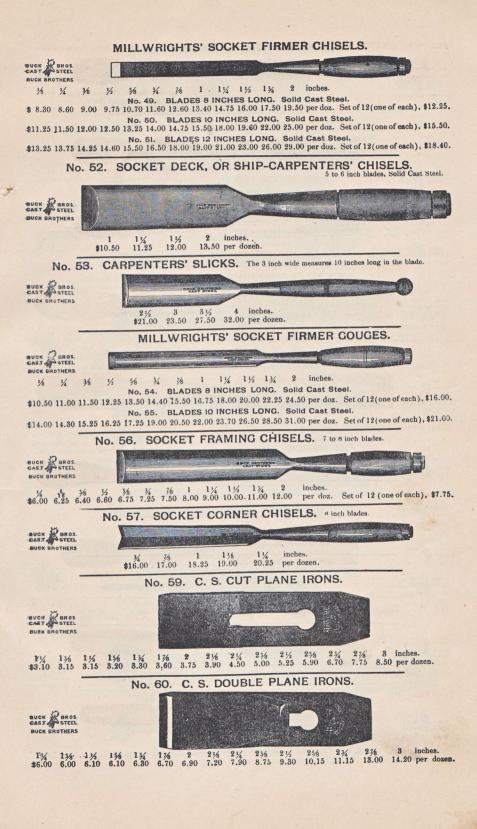
No. 25.

WOOD TURNERS' SIZING TOOLS.

Wood Turners' Sizing Tools, price per dozen, \$30.00. Opens to 2½ inches.







No. 63. C. S. TOOTH PLANE IRONS.





1¼ 1½ 1½ 1½ 1½ 1½ 1½ 2 2½ 2½ 2½ 2½ inches. \$4.50 4.50 4.50 4.50 4.50 5 25 5 5 6 6.10 6.40 6.85 per dozes.

We keep in stock three cuts of Tooth Irons, viz Finc, Medium and Coarse.

No. 72. C. S. SCREW DRIVER BITTS.

BUCK BROTHERS



Length over all, 5 inches. Assorted Sizes. Price per dozen, \$1 90.

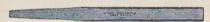
No. 73. EXTRA LONG AND HEAVY C. S. SCREW DRIVER BITTS.





BEST QUALITY NAIL SETS.

BUCK BROTHERS



No. 76.

Best Quality Square Point Nail Sets. Made in five sizes, being the size of Best English. Cast Steel in the bar, viz: 1/4. 1/2. 1/2. 1/3. 1/3 Square. Each Nail Set is stamped BUCK BROTHERS. They are tempered at both ends and are finished in the best style. We send them assorted sizes unless otherwise ordered. Packed in 1/4 Gross boxes with six round points in each box.

Best Quality Nail Sets, assorted sizes, per gross, \$16.00.

BUCK BROTHERS



No. 77.

Best Quality Round Point Nail Sets. Made in tive sizes, being the size of Best English. Cast Steel in the bar, viz. vis. vis. vis. vis. vis. vis. vis. Square. Each Nail Set is stamped. BUCK BROTHERS. They are tempered at both ends and are finished in the best style. We send them assorted sizes unless otherwise ordered. Packed in † Gross boxes. Best Quality Nail Sets, assorted sizes, per gross, \$16.00.

No. 80. BEST C. S. SQUARE REAMERS.

BUCK BROSSTEEL BUCK BROTHERS



C. S Square Reamers, superior quality, per dozen, \$2.35.

C S. Flat Reamers, superior quality, per dozen, \$2.35.

No. 81. BEST C. S. OCTAGON REAMERS.

BUCK BROTHERS



C S. Half Round Reamers, superior quality, per dozen, \$2.60.

C. S. Hexagon or Octagon Reamers, superior quality, per dozen, \$2.75.

No 82. C. S. FLAT COUNTERSINKS.

BUCK BROS CAST STEEL BUCK BROTHERS



C. S. Flat Countersinks, superior quality, for iron, assorted sizes, per dozen, \$2.50.

No. 83. C. S. ROSE COUNTERSINKS.





© S. Rose Countersinks, superior quality, assorted sizes, per dozen, \$2.75. Extra Large Sizes will be charged extra prices.

No. 84. C. S. SNAIL COUNTERSINKS.





C. S. Snail Countersinks, superior quality, for wood, assorted sizes, per dozen, \$2.50. Extra Large Sizes will be charged extra prices.

No. 85. BEST C. S. COLD CHISELS.





No. 86. C. S. SCRATCH AWLS





Packed in & Gross boxes. Assorted Sizes. Price per gross, \$16.00

PUNCHES.





No. 87. MACHINISTS' CENTRE PUNCHES.

 $\frac{16}{$2.10}$ $\frac{7}{16}$ $\frac{1}{12}$ inch. \$2.10 \$2.40 \$2.75 per dozen. Assorted sizes, 1 dozen in a box, \$2.40 per dozen.

BUCK BROTHERS



No. 88. BRIGHT PRICK PUNCHES.

\$1.75 \$1.90 \$2.20 per dozen.

Assorted sizes, I dozen in a box, \$1.95 per dozen

BUCK BROTHERS



No. 89. TINNERS' OR COOPERS' SOLID PUNCHES.

\$2.10. \$2.40 \$2.75 per dozen.

Assorted sizes, 1 dozen in a box, \$2.40 per dozen

BUCK BROTHERS



No. 90. BRIGHT SOLID PUNCHES.

\$1.75 \$1.90 \$2.20 per dozen.

Assorted sizes, 1 dozen in a box, \$1.95 per dozen.

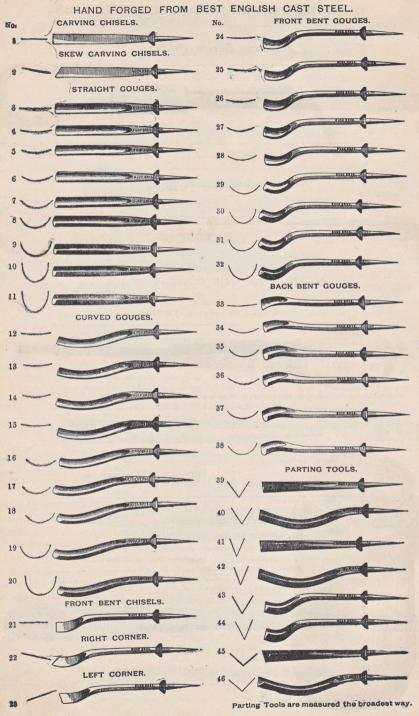
No. 91. CABINET MAKERS' BURNISHERS.

BUCK BROS. CAS.T STEEL BUCK BROTHERS



\$5.00		\$5.75	\$6.75	\$8.00		dozen.
Assorted,	3 to 4	inches,		4.50	per	dozen;
"	3 to 4 1/2			5.00	10	
	3 to 5	**		5.50		
40	3106	44		6.25		

LONDON STYLE CARVING CHISELS AND GOUGES.



Round Screw Drivers.



10 12 8 5 4 3 Length of Blade, inch, $1\frac{1}{2}$.45 .28 .35 .25 .15 .17 .19 .21 .23 \$.12 Price, each,

Flat Screw Drivers.



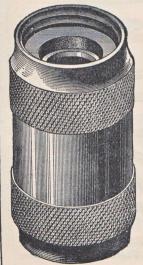
8 10 12 5 Length of Blade, inch, 2 3 4 1.15 .90 .40 .52 .65 .23 .26 .33 Price, each, \$.20

Ratchet Screw Driver.



A very convenient tool, it can be made to work either right or left by moving the button from one side to the other.

Length of Blade, inch, Price, each, 4 5 6 \$.75 .85 1.00



The Ellis Water Filter.

It is no longer considered safe to use water through a faucet for drinking or cooking purposes without being filtered. Conceding this fact, we must admit that the most simple, the most durable, and the cheapest (if it does the work as well or better), must be the most desirable.

One great objection to filters has been complication, it requiring a good mechanic to take apart, refill, and adjust properly. If in use a filter should be reversed as often as once a day.

In the Ellis, the best judges consider all objections overcome. It can be reversed by a child. It can be taken apart, refilled, and adjusted by any servant girl.

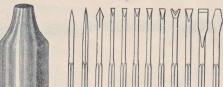
PRICE, 75 CENTS EACH.

HENRY'S PATENT TOOL HANDLE.

With Brass Cap.

Nickel Plated.





The advantages of this haft over others are:

rst. It is the only haft or tool holder that carries the tools in the same end of the holder in which they are used.

2d. No shifting the holder, end for end, in changing the instrument.

3d. No shaking the tools out into the hand to get the one wanted.

4th. The same motion that unscrews the instrument in use removes the cap that covers the surplus tools.

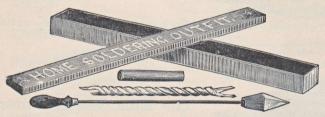
5th. No wrench to be used.

6th. It has a solid handle and can be used with a mallet.

Each.

\$.75

HOME SOLDERING OUTFIT.

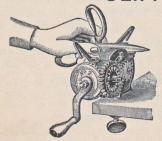


With this little "kit" many a dollar can be saved, by repairing your own tins, or earned by mending your neighbors'.

Price.

25 cents.

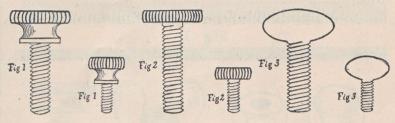
CLIPPER GRINDER.



This neat little machine is designed for sharpening all kinds of small edge tools, such as Carving and Table Knives, Shears, Scissors, etc. With it any one, however inexperienced, can grind perfectly a carving or table knife, a pair of shears or scissors, and grind them with rapidity.

Price, \$2.00.

BRASS THUMB SCREWS.



BRASS
THUMB NUTS. THUMB NUT BOLTS.

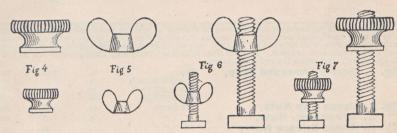


Fig.	1.	Brass	Thumb	Screws,
		WITH	SHOUL	DER.

WITHS				
Size of Screw,	No. 4	8	12	Size
Threads to inch,	36	32	24	Thr
Length, inch,	3/8	1/2	3/4	Len
Price per Doz.	.50	.75	1.12	Pric
Price each	06	08	10	Pric

Fig. 2. Brass Thumb Screws, PLAIN.

PLAIN.			
Size of Screw,	No. 4	8	1
Threads to inch,	36	32	2
Length, inch,	3/8	1/2	3/4
Price per Doz.	-35	.60	.89
Price, each,	.05	.06	.08

Fig. 3. Flat Head Brass Thumb Screws.

Size of Screws,	No. 8	8	10	10	10	14	14	14	14
Threads to inch,	32	32	24	24	24	20	20	20	20
Length, inch,	3/8	1/2	1/2	3/4	1	1/2	3/4	1	11/2
Price per Doz.	.30	.30	-35	.40	-45	-45	.50	-55	.60
Price each,	.03	.03	.04	.04	.05	.05	.06	.06	.07

Fig. 4. Brass Milled Thumb Nuts.

Size to fit	No. 4	6	8	10	12	14
Threads to inch,	32	32	32	24 & 32	23	20
Price per Doz.	.50	.50	.50	-55	-55	-55
Price each.	.05	.05	.05	.06	.06	.06

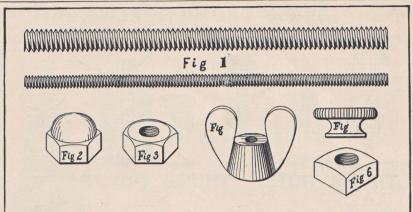
Fig. 5. Brass Thumb Nuts, Flat.

Size to fit	No. 4	6	8	10	12	14
Threads to inch,	32	32	32	24 & 32	24	20
Price per Doz.	.35	.40	-45	.45	.60	.60
Price each,	.04	.04	.05	.05	.06	.06

Fig. 6 & 7. Brass Thumb Nut Bolts. Fig. 6 & 7. Br. Thumb Nut Bolts

Head, 1/4 inch Squ	are.	Thread No	. 6-32.	Head, % in. Squ	are.	Thread	, No.	10-24
Length, inch,	1/2	3/4	1	Length, inches,	3/4	1	1/4	11/2
Price per Doz.	-75	-75	.85	Price per Doz.	1.10	1.20	1.30	1.40
Price each,	.08	.08	.10	Price each,	.12	.12	.15	.17

The above Screws are Regular Machine Screw Sizes.
No. 4, 7-64. No. 6, 9-64. No. 8, 5-32. No. 10, 3-16. No. 12, 7-32. No. 14, 1-4 in.



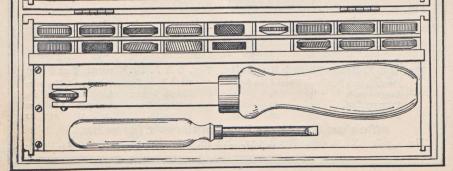
The above cut represents a very convenient method of making small bolts for connecting parts of models and other purposes. It consists of a piece of iron or brass rod, with a screw cut on the whole length, with nuts to fit. This rod may be cut to any desired length, and by putting a nut on each end, used as a bolt. The nut (Fig. 2) makes a very neat finish, as it is not drilled wholly through, and covers the end of the screw.

Fig. 1. Screw Threaded	Wire,	Bra	m. reads to ss. per to per fo	foot	1/8 32 .10 .08		3-16 32 .12 .10	1/4 20 .15 .12		
Fig. 2. Brass Cap Nuts,		Per	dozen		.50		.50	.75		
" 3. Brass Hex. Nuts,			**		.25		.25	.50		
" 6. Brass Square Nu		46	46		.15		.20	.30		
" 6. Iron Square Nuts		.6	44		.10		.10	.10		
" 5. Brass Thumb Nu			**		-35		.45	.60		
" 4. Br's Milled Thum		**	. 16		.50		.50	.50		
	Square Brass Nuts to fit Machine Screws.									
Size	4 4	6	8	10	10	12	14			
	36 32 15 .15	.15	32 .17	.20	32	.25	.30			

CASE OF KNURLS.

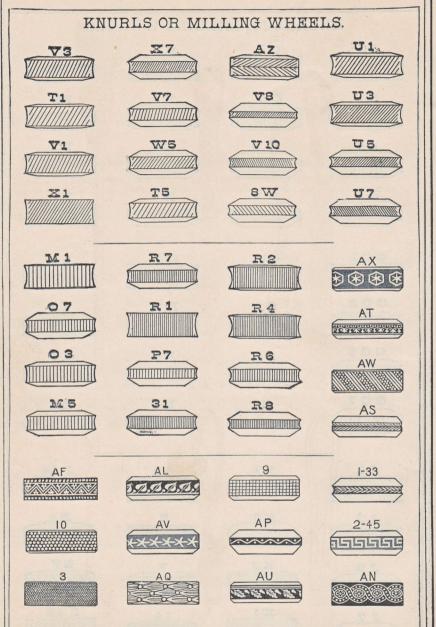
Containing 18 of the most useful patterns of Knurls, with Holder and Screw-Driver, put up in a neat Black Walnut Box.

PRICE, COMPLETE, * * \$5.00.



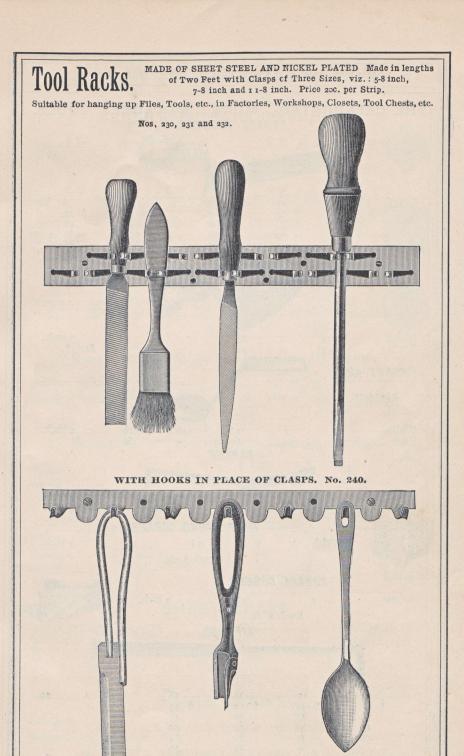
KNURLS OR MILLING WHEELS. CI A 1 F7 C 3 E3 F5 F3 C 5 E 5 A 5 C 7 F1 **E** 7 A 7 GG1 G1 GG3 H3 G3 L3 GG5 G5 H5 L5 MINIMINI GG7 H7 17 **G7** minimin (minimum) 1 45 J 1 K7 13 VAVAVAVAVAVAVA BA K5 5 JB BF K3 J 5 2 13 K1 14

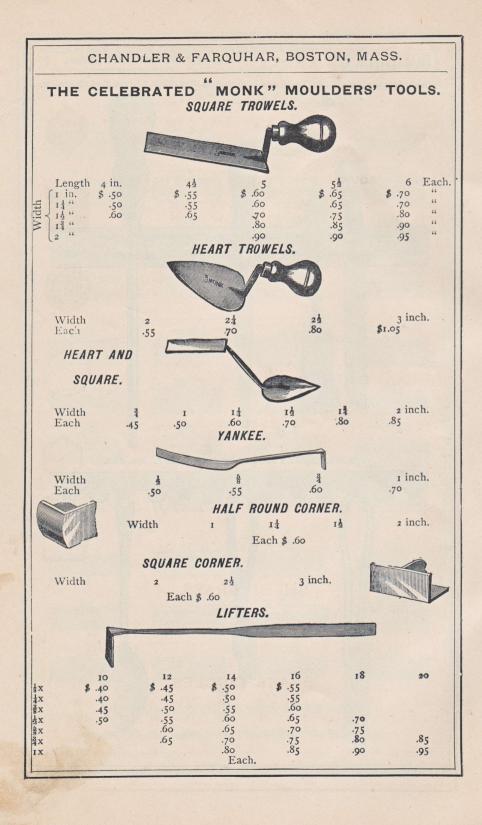
PRICE OF ALL ABOVE PATTERNS 35 CTS. EACH.



All Cuts are exact size of KNURLS.

PRICE OF ALL ABOVE PATTERNS 35 CTS. EACH.





HEXAGON BRASS ROD, in Pieces 1 Ft. Long.

Diameter, $\frac{1}{8}$ $\frac{1}{16}$ $\frac{1}{4}$ $\frac{5}{16}$ $\frac{3}{8}$ $\frac{1}{2}$ Per Ft. . \$0.03 .04 .06 .08 .12 .22



SQUARE BRASS ROD, in Pieces 1 Ft. Long.

Size, . . $\frac{1}{8}$ $\frac{3}{16}$ $\frac{1}{4}$ $\frac{5}{16}$ $\frac{3}{8}$ $\frac{1}{2}$ Per Ft. . \$0.03 .04 .07 .10 .15 .25



ROUND BRASS ROD, in Pieces 1 Ft. Long.

Diameter, $\frac{1}{16}$ $\frac{3}{32}$ $\frac{3}{8}$ $\frac{5}{32}$ $\frac{3}{16}$ $\frac{7}{32}$ $\frac{1}{4}$ $\frac{5}{16}$ $\frac{3}{8}$ $\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$ I Per Ft. \$0.02 .02 .03 .03 .04 .05 .06 .08 .12 .16 .25 .30 .65



BRASS TUBING, in Pieces 1 Ft. Long, $\frac{1}{20}$ In. Thick.

Diameter outside, $\frac{1}{8}$ $\frac{3}{16}$ $\frac{1}{4}$ $\frac{5}{16}$ $\frac{3}{8}$ $\frac{7}{16}$ $\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$ $\frac{7}{8}$ I Per Ft. . \$0.05 .05 .06 .07 .07 .08 .08 .10 .13 .15 .17.



HEXAGON BRASS TUBE, 1 Ft. Long, 10 In. Thick.



SQUARE BRASS TUBING, 1 Ft. Long, 1 In. Thick.



SHEET BRASS.

$\frac{1}{16}$ in	thick,	1/2 to	2 in.	wide,				5 to 20 cts. per foot.
	"	1/2 to		"				7 to 50 " "
3	66	1/2 to	3	"				10 to 90 " "
1/4	"	1/2 to	3	46				12 to \$1.25 "

BRASS CIRCLES.

Diameter	, .		,	11/2	2	2 1/2	3	4	5	6	8
Thicknes	s, 16,	Price	each,	\$0.05	.08	.10	.12	.20	.25	.40	.75
"	1/8	"	"	.10	.15	.20	.25	.40	.50	.75	1.25
"	1/4	"	"		.20	.25	•35	.50	-75	1.00	1.50

Complete Catalogue of Gears on application.

THE ALEXANDER ADJUSTABLE JOINTER GAUGE.



We claim for this tool:

1st. The ease with which it is attached to any Plane, Jack or Jointer.

2d. The great amount of time saved, without the use of Bevel or Try-Square.

3d. Is adjustable for squaring, or to any Bevel desired.

4th. The work completed in the highest state of perfection, even by inexperienced workmen.

Attach the Guage to the plane so that the depression in the ceutre of the wing of the Guage shall be directly opposite the cutting edge of the plane iron.

Price, - \$1.50 each.

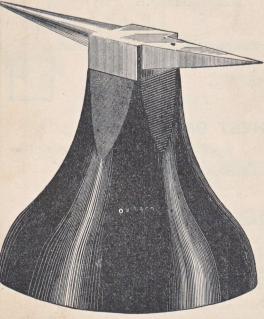
PATENT HACK SAW FRAME.

No.3 FRAME

These Hack Saw Frames are made of Spring Steel, Japanned, and are the cheapest and best ever put on the market for the money. They are invaluable in the house for cutting a bone or nail.

Price 35 cts.

STEEL BENCH ANVIL.



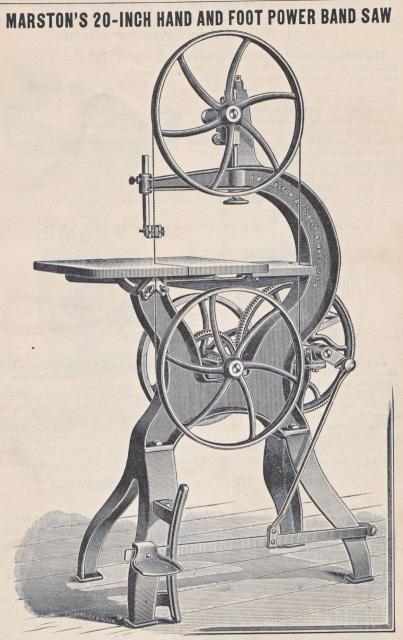
The top is finely polished, and with the solid base, makes a very useful and attractive tool.

No. 1, length of top

31/4 inches, \$1.00 each.

No. 2, length of top

4 inches, \$1.25 each.



Machine occupies floor space of 27 x 44 inches. Height to top of saw pulley, 5 feet 8 inches. Net weight, 350 lbs.

Sinches. Net Weight, 300 fbs.

Send for our Illustrated Catalogue and Price List.

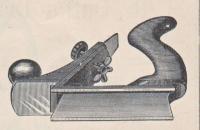
Also manufacturers of Hand and Foot Power Circular Saws, 24-inch Power Band Saw and Small Power Circular Saw. Agents for Huther Bros.' Groover and the Champion Quick-Action Vise.

J. M. MARSTON & CO., 219 RUGGLES ST., BOSTON, MASS.

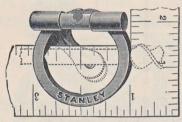
Patent Adjustable Chamfer Plane.

The front section of this Plane is movable up and down. It can be firmly secured to the rear section at any desired point by means of a thumb-screw. Without the use of any other tool, this Plane will do perfect chamfer or stopchamfer work of all ordinary widths.

For Beading, Reeding or Moulding a chamfer, an additional section to this Plane is furnished (price \$1.00) with six cutters, sharpened at both ends, including a large variety of ornamental forms.



Stanley's Patent Bit and Square Level.



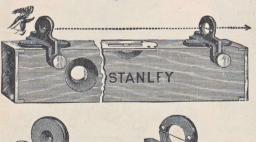


The frame of this Level has three pairs of V slots on its back edges. The shank to a Bit will lie in these slots, either parallel with the bubble-glass, at an exact angle to it, or at an angle of 45 degrees.

A Thumb-Screw secures the Level to the Bit, in either position: and boring can be done with perfect accuracy as to perpendicular, horizontal or angle of 45 degrees, by observing the bubble-glass while turning the bit.

The frame can also be attached to a Carpenter's Square. Two shoulders rest on the top of the horizontal leg to the square, thus making it an accurate Spirit-level. The upright leg of the square will indicate an exact Plumb-line. No. 44. Bit and Square Level, Brass Frame, in a box, each......\$0.30 net

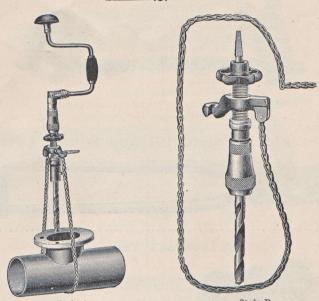
Stanley's Improved Level Sights.



By the use of these ingenious devices, which can be attached to any Level, the owner has a convenient and accurate means for leveling, from one given point to another at a long distance away. When not in use the Level Sights are easily detached, and can be packed away in a small space for future use.

No. 1. Improved Level Sights, per pair in a box......\$0.75 net

J. R. Duff's Drilling Attachment.



Style A.

Style B.

This is the best hand drill ever invented for its class of work, it has a bearing of steel balls which reduces the friction to the minimum. Every thickness of steel, iron or metal of any kind can easily be drilled with any sized drill up to and including one inch.

It can be operated with any ordinary bit brace, and requires no skill by the operator. It saves time and labor. Every mechanic should have one. Style A has one screw chuck and will hold round shanked drills only. Style B has a universal chuck and is best adapted to holding square shanked drills.

All orders by mail will receive prompt attention.

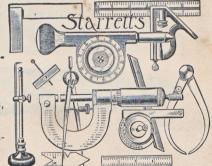
STYLE A EACH, - - \$1.50 STYLE B " - - 2.00

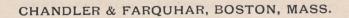
We keep in stock a complete line of

STARRETT'S FINE MECHANI-CAL TOOLS,

Consisting of CALIPERS, DIVIDERS, STEEL RULES, SQUARES, &c., And a catalogue will be sent on applica-

tion to us.



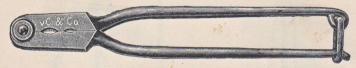


Linemen's Climbers.

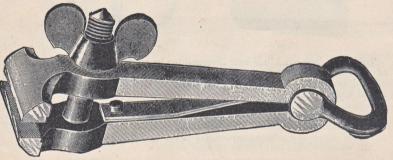


Per pair,	without	Straps.	Dicks'	\$2.00
"	**	"	Weldon's	2.50
Strans ne	r set of t	four		1.00

Splicing Clamps.

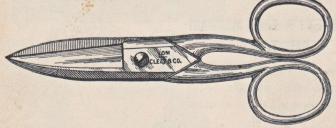


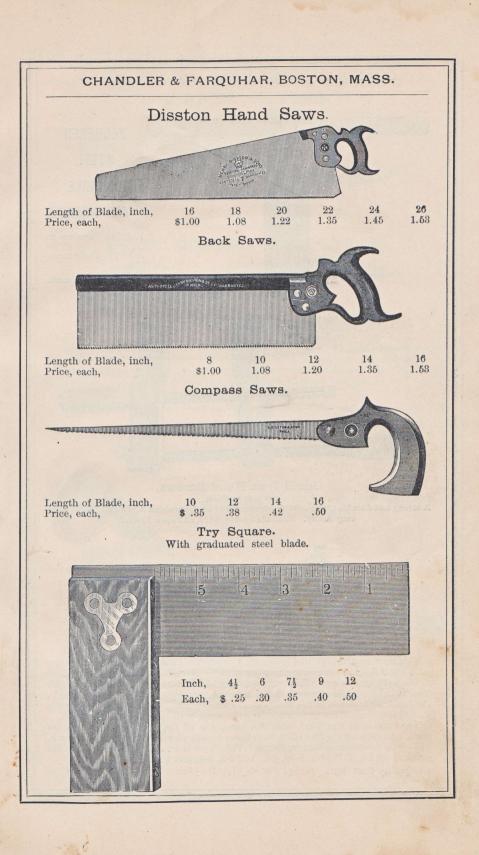
Lineman's Vise.

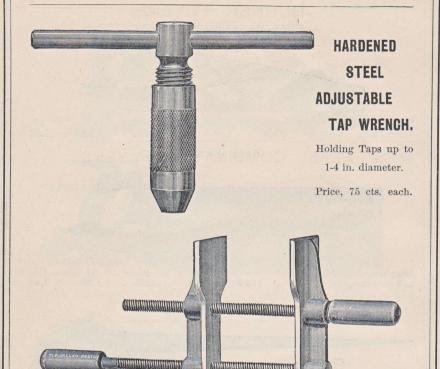


Stub's (English) Looped, 5½ inch	\$3.50
Extra quality (German) Looped, 5½ inch	2.50
Strap extra	1.00

Telephone Wire Snips.

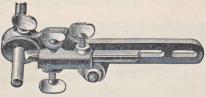






Small Iron Hand Screws.

A strong and durable Clamp. Will outwear many of the wooden Screws and holds work very firmly. Jaws are 11.2 in. wide, and open 31.4 in.



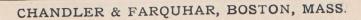
Fonda's Improved Lathe Tool.

This new and useful tool is designed to supply Pattern Makers, and others, with a suitable instrument for making round rods of wood, to be used for Pins or Dowels, or for any other purpose for which they may be required. This Tool is to be used in connection with a power turning lathe, and we held in the hand, or fastened in the tool post of a sliding rest or carriage (or to any device that will serve the purpose), doing the work with neatness and despatch.

The Casting of the Tool, with the exception of the bushings, are made of steel, and each tool is furnished with three square chucks for holding the work, and eight interchangeable bushings. This Tool is capable of making standard size rods of 1-8, 3-16, 1-4, 5-16, 3-8, 1-2, 5-8, 3-4, and 1 in. diameter.

Price,

\$3.00 each.



BURNER PLYERS.



(POLISHED.)

7 Size, \$0.50 - 55 Price, each,

COMBINATION PLYERS.



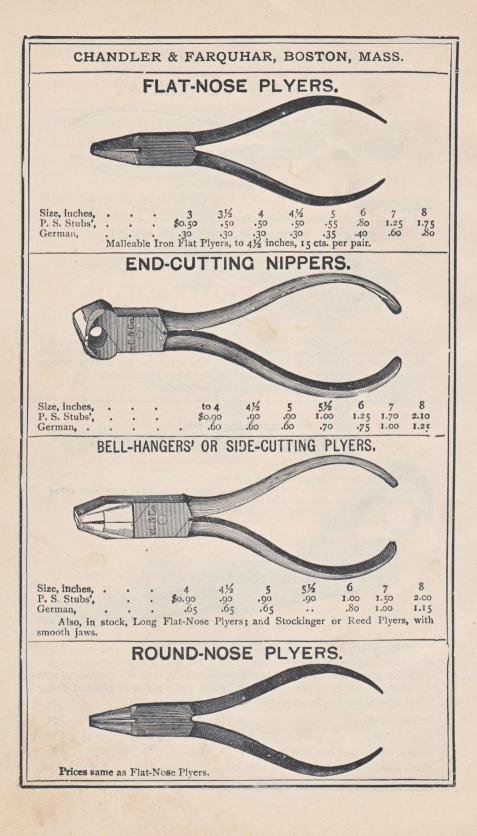
Gas Plyers, Wire Cutters, Wrench and Screw Driver combined. Drop forged from best tool steel, and finished first-class; a very convenient tool for all mechanics, and very handy in every house. By shifting from one hole to the other it changes from size of gas burner to 3/4 inch pipe, or from 3/16 inch to 1 inch round. Price, Nickel plated, \$1.25 each.

Something New. Hall's Improved Pipe Wrench.



Grips quickly and firmly galvanized as well as other pipe, and will not crush it. Releases instantly. Cannot lock on the pipe. Has scale to set the wrench to size before placing on pipe. Can be sharpened on grindstone or emery wheel without taking apart. Jaws are smooth and will not mar a nut or polished fitting. It has other attractive features.

Length Open,	6	10	14	18	24
Size of Pipe,	$\frac{1}{8}$ to $\frac{1}{2}$	1 to 3	1 to 11	1 to 11/2	$\frac{1}{2}$ to $2\frac{1}{2}$
Largest Opening for Nut or Bolt,	34	1,5	134	21	31/4
Price, each,	\$1.00	1.25	1.50	2.00	3.00





What Now?

Well, well, well, how awfully off is that fellow who tries to get a first-class Engineer to buy, or even to try "Something just as good."

There is only one BEST Metal Polish.

YOU want it,

WE'VE got it,

PRESTOLINE is its name.

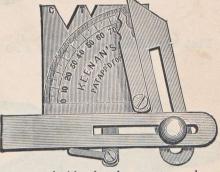
SHALL WE SEND YOU A SAMPLE?

It cleans as it is rubbed on and polishes as it is wiped off.

Sizes,	Trial,	½ pt.	Quart.	½ gal.	Gal.
Prices,	\$.10	.25	.75	1.25	2.40

KEENAN'S PROTRACTOR.

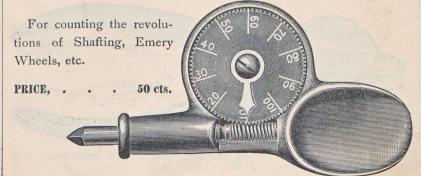
A glance at this cut will, no doubt, convince you of its usefulness. The PROTRACTOR is made of sheet steel, 1-16 of an inch thick and 2 inches square, is highly finished, and can be attached to any bevel gauge, by means of an eccentric lever, which can be adjusted to any size. On one side of the Protractor is a thread and centre gauge, which, with the Protractor, makes three tools in one. The circular edge or arc is accurately graduated. By placing the Protractor on the bevel gauge, and moving the indicator to the required degrees, it is set in an instant. One of the advantages



of this tool is, that it costs but a trifle compared with a bevel protractor, and can be used as a thread and centre gauge and protractor combined, where a bevel protractor can only be used as a protractor. Another advantage is, that when not in use it can be removed from the bevel-gauge in a moment.

Protractor (without bevel), - - - - - \$1.00

"PARAGON" SPEED INDICATOR.



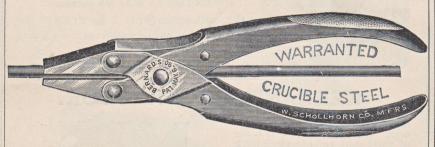
The Bernard Patent Pliers.

Open Throat Parallel Jaws.

Are constructed on a new principle, being made of Crucible Steel throughout, and Full Nickel Plated.

The Cutting Pliers have Interchangeable Parts, which can easily and cheaply be replaced, when worn, or broken.

It is acknowledged by all who use them, that their Durability and Gripping, or Cutting Power is double that of any other Plier in the market.



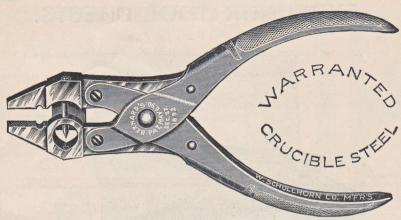
Flat Nose Plier— $\begin{cases} Size, & 4\frac{1}{2} & 5\frac{1}{2} & 6\frac{1}{2} & 7\frac{1}{3} \text{ (extra heavy) inch.} \\ Price, each, $$50 & .65 & .85 & 1.10 \end{cases}$



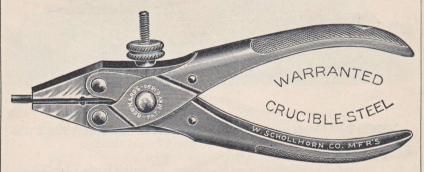
Round Nose Plier— $\begin{cases} \text{Size,} & 4\frac{1}{2} & 5\frac{1}{2} & 6\frac{1}{2} \text{ inch.} \\ \text{Price, each,} & 5.50 & .65 & .85 \end{cases}$



Cutting Plier = $\begin{cases} \text{Size}, & 4\frac{1}{2} & 5\frac{1}{2} & 6\frac{1}{2} & 7\frac{1}{2} \text{ (extra heavy) inch.} \\ \text{Price}, & \$.80 & 1.05 & 1.25 & 1.65 \end{cases}$



Sewing Machine Plier-Price, \$1.00 each.

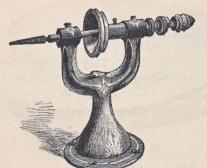


Bernard's Patent Vise Plier-Size, 61 inch. Price, \$1.00.

This is a Parallel Plier and Hand Vise combined and is always ready to use either as a Plier, Hand Vise, Clamp or Wrench. When used as a wrench for small bolts, nuts, set screws, &c., is superior to a screw or morkey wrench.

screw or monkey wrench.

The surprising merits of this Plier are soon recognized by all when in use and universally pronounced the most convenient and handy tool in a workshop, factory, or wherever used by all who have used them.

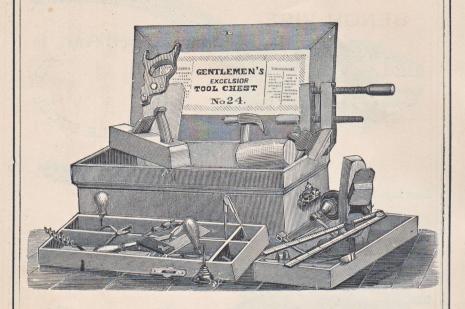


Eureka Polishing Head.

This head has a steel spindle, a flange for holding circular saws or wheels, and a chuck for holding drills, it is handsomely japanned and ornamented, and presents a very neat and attractive appearance.

Price, \$1.25 each.

EXCELSIOR TOOL CHESTS.



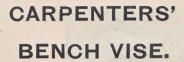
These Tool Chests are made of Selected Chestnut Stock, heavy Black Walnut Mouldings, large drawer, Lock and Key, and Bronze Handles.

				PRICE
No. 20.	Size 14 x 6½ x 5.	Contains 20	Tools.	\$ 5.00
No. 21.	Size 16 x 7½ x 5½.	" 25	"	7.00
No. 22.	Size 18 x 8½ x 6½.	" 34	"	9.00
No. 23.	Size 19½ x 10½ x 7½.	" 46	"	12.00
No. 24.	Size 21 x 10½ x 8½.	" 61	"	16.50
No. 25.	Size 25 x 12½ x 9.	" 72	"	24.00

EMPTY TOOL CHESTS.

Many persons do not care for a whole chest of tools. They may have a few tools already purchased, and are adding to them from time to time, but they do need a good box to keep them in, one where they can be locked up away from the children. The above chests are just suited for this purpose and are less than half what they would cost if made singly.

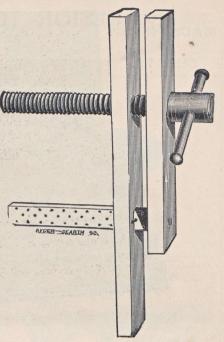
No.	20	21	22	23	24	25
Price,	\$2.00	2.25	2.50	2.75	3.00	3.50



Carpenters' Vise with 23 in. Hickory Screw, 36 in. high, \$2.50.

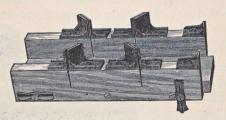
Carpenters' Vise with 2 in. Hickory Screw, 36 in. high, \$2.00.

Amateurs' Vise with 13 in. Hickory Screw, \$1.50.



Olmsted's Improved Mitre Boxes.

The frame is made of hard wood of the best quality selected for the purpose, and made from boards one-inch thick, and consists of two upright pieces, which are fastened rigidly to the edges of a bottom board. Has adjustable iron saw guides for any thickness of saw blade. The saw cannot cut the frame away. An ordinary cross-cut saw can be used as well as a back saw. When putting the saw into the slots in the Mitre Box have the teeth of the saw below the iron saw guides. The iron work is painted and varnished and the frames are finished in hard oil varnish, making them impervious to the action of the atmosphere.



Upon the upper edge and at one end of the uprights are fastened two irons which are used to guide the saw when sawing a square cut.

Price,	No. 1 will take work 12 in. x 3 in.			\$1.00
Price,	No. 2 will take work 22 in. x 4 in.			1.50



Made of selected Chestnut, trimmed with Black Walnut mouldings, Black Walnut Panels, and nicely finished.

No. 28, with 2 Drawers, Receptacle under Cover $18 \times 10 \times 2\frac{1}{2}$. Sliding Tray under Cover, $16\frac{1}{4} \times 5\frac{1}{4} \times 1\frac{1}{4}$. Second Drawer, $17 \times 8\frac{1}{4} \times 2\frac{1}{4}$. Second Drawer, $17 \times 8\frac{1}{4} \times 2\frac{1}{4}$.

Receptacle under Cover, $21 \times 11 \% \times 3\%$. Sliding Tray under Cover, 20×6 5-16 x 1%. First Drawer, 20×10 9-16 x 1. Second Drawer, 20×10 9-16 x 1%. Third Drawer, 20×10 9-16 x 1%.

a received the state of the state of

Malleable Iron Chains.

With Detachable Links, and Cast-iron Wheels with Cast Teeth.

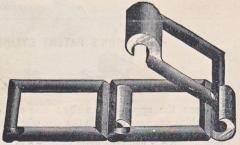
We can furnish any size of this chain from No. 25, 13.3 links to foot, having 75 pounds' working strain, to No. 160, links one foot in length, having 4,000 pounds' working strain. We can also furnish wheels to fit.

The wheels furnished usualy have the teeth cast. We can furnish to order, at extra cost, wheels with cut teeth. The latter should be ordered for high speed.

Chain No. 25.

13.3 links to the foot.Working strain, 75 pounds.Approximate in leather belt, one single belt.

Full size. Price per ft., 12 cts.



BROWN & SHARPE STANDARD STEEL RULES.

Length, in. . . . 1 2 3 4 6 9 12 18 24 36 Price each . . . \$0.15 .25 .35 .45 .65 1.00 1.25 2.00 2.75 7.00

WRENCHES.

GENUINE COE'S PATENT.

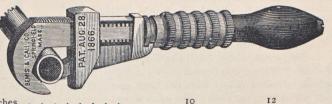


12 15 18 6 IO 21 Size, inches .85 1.35 1.60 1.90 Price each, Bright . \$0.50 -55 .60 .75 1.80 " Black . .50 .65 .75 1.25 1.50 -55

BAXTER'S PATENT "S" OR DIAGONAL.



BRIGGS' PIPE WRENCH.



 Size, inches
 10
 12
 15

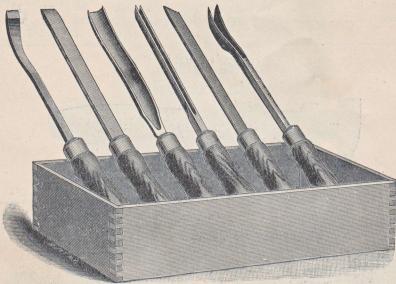
 Price each
 \$1.60
 1.80
 2.50

STILLSON'S PATENT CYLINDER WRENCH.



18 8 IO 14 Size, inches 1/4 to 11/2 14 to 2 1/8 to I Takes pipe, inch. . . 1/8 to 1/2 1/8 to 3/4 1.50 2.00 1.13 1.00 \$1.00 Price each. . . .

CARVING TOOLS.



Six Tools in a Wooden Box.

Price,

Price, per set, \$1.00

These Tools are forged from best quality of steel, and are fully warranted. They have Rose-wood Handles and are sharpened ready for use.

No. 2. BRACKET SETS.

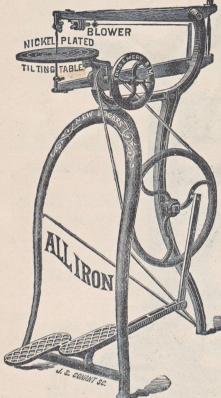
These sets are packed in paper boxes, and embrace a Spring Steel Saw Frame, polished and nickel-plated, 5 x 12 inches, having patent Clamps for holding the Saw Blades, rose-wood handle.



Fifty full-sized designs, embracing a great variety of fancy and useful articles; six Saw Blades, one awl, one Sheet of Impression Paper, and full directions for using the Saw.

A large assortment of Chucks, Drills, Screw Plates, Files, etc., constantly in stock.

NEW ROCERS SAW.



This season we have added all the improvements that our ingenuity can suggest, and have no hesitancy in declaring our

NEW ROGERS SAW

to be the best low-priced saw offered to the public.

The entire frame-work is made from iron, painted and japanned black, ornamented with red and gilt stripes.

The arbors are made of steel and are carefully gauged and fitted to their bearings.

The Arms and Pitman are of the best selected ash.

All parts made to interchange, and our Jig Saw possesses every improvement and advantage claimed for any other in the market.

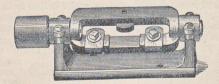
Each machine is set up and carefully inspected before leaving our works. It is then taken down and packed in a box.

While the New Rogers Saw is very rich, though not gaudy in appearance, it has been our object more especially to make, for the least possible money, a saw characterized for its Compactness, Strength and Durability, ease of action and firmness when in operation.

With each machine we give 12 Saw Blades, Wrench, Sheet of Designs, and Three Drill Points. Price, \$3.50

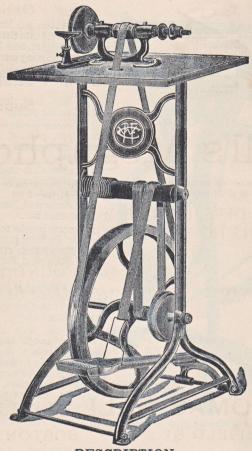
Orders solicited for model work, special taps or dies, etc.

WIRE STRAIGHTENER.



This Straightener is of an improved pattern and will straighten wire from No. 3 to No. 20.

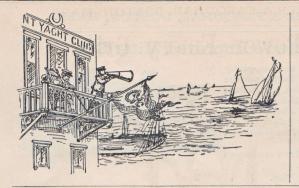
Foot Power Emery Grinder.



DESCRIPTION.

Size on floor, 16x24 inches; height of table, 38 inches, size of table, 15x22 inches. A heavy fly wheel, 19 inches in diameter for 1¼ inch belt; frame of cast iron, well braced. Weight of machine, complete, 130 lbs. Head spindle ¾ inch steel, 12 inches long; has two inch collar at both ends, is fitted for wheel with ⅓ inch hole. Has a two inch turned pulley; spindle runs in 2 inch adjustable boxes; oil holes have caps to keep out dust. The head will carry two wheels 7 inches in diameter and one inch thick, or less, and 4 inches from centre of spindle to the table. The iron work is neatly painted, and is well finished throughout.

The machine is driven by Chapman's Positive Action Clutch, in which there is practically no lost motion, and is the strongest driving foot-power ever placed upon the market. They will grind three times as fast and do mnch nicer work than a grindstone. They are a practical tool for Carpenters, Cabinetmakers, Blacksmiths, Gunsmiths, Wagonmakers, Stonecutters, and many others, who will find they can save files and save time by using this machine, not only for grinding tools, but for much other work for which files are commonly used. A speed of 3000 per minute can be easily attained. It is a thoroughly practical polishing lathe for Nickel Platers, Jewelers and Dentists, and a polishing head will be furnished to order, if desired. **Price \$15.00**.



Manufacturers

and

Dealers in all kinds of

Optical,
Electrical,
and
Chemical
Supplies.

Hall's Megaphone

An instrument to carry and receive the voice to and from a distance of one or two miles, used at

YACHT, HORSE, BICYCLE, and
ATHLETIC RACES, FOOT-BALL
GAMES, SHORE COTTAGE,
FARM, COUNTRY HOME,

And any place where the voice cannot be easily heard.

PRICES:

No. 1				\$5.00	No. 2.					\$4.00
With Pulley,	Rope, a	nd	Cleat	6.00	With	Rope a	and	Cleat		5.00
With Stand					No. 3.	Hand	use			\$3.50
		CD	TOTA	T STAT	ES TO OF	DER				

-MANUFACTURED BY-

THOMAS HALL & SON,

19 BROMFIELD ST.,

BOSTON, MASS.

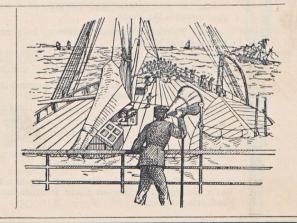
Electrical
Appliances

and

Supplies

a

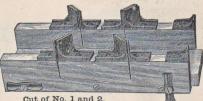
Specialty.



Olmstead's Improved Mitre Box.

The frame is made of the best quality of hard wood selected for the purpose from boards one inch thick, and consists of two upright pieces which are fastened rigidly to the edges of a bottom board. Has adjustable iron saw guides for any thickness of saw blades, the saw cannot cut the frame away.

An ordinary cutting-off saw can be used as well as a back saw.



	-	-	_	THE PERSON NAMED IN	-
Cut	of	No.	1	and	2.

	Nos.	1	2	3	4
Takes	work,	$1\frac{1}{2} \times 3$	21 x 4	$1\frac{1}{2} \times 3$	$2\frac{1}{2} \times 4$
Price,	each,	\$1.00	\$1.50	\$1.25	\$1.75

Forest City Screwdriver.

This tool contains many changes, such as a driver to push a screw in, a driver to push a screw out, a driver which will make an automatic drill, a driver that will make a continuous drill, a driver which will ratchet a screw in and out, a driver that is a ratchet wherever you catch the spindle, a driver that is stationary at long and short range. In other words, we give you a driver with different combinations; that were you to purchase the same separately would cost you a ten dollar note, and we sell you this tool with all of the above for the low price of a dollar and a half.

This driver is warranted to do all we claim for it if properly

handled. We don't put it upon the market as a hammer or chisel. In order that one may become an expert in handling this driver please read carefully the following instructions:

To push a screw in always have both shippers next to handle.

To push a screw out push plain shipper towards the 2nd. blade.

3rd. To make continuous drill push marked shipper towards the blade, plain shipper towards the handle.

To make automatic drill keep both shippers towards the blade.

5th. To make stationary driver at short range push both shippers towards the blade.

To make stationary driver at long range push both shippers towards handle.

7th. To make ratchet driver to ratchet a screw in push marked shipper towards the blade, plain shipper towards the handle.

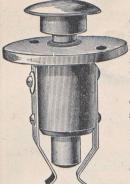
8th. To ratchet a screw out push marked shipper towards handle, plain shipper towards the blade.

9th. In attempting to remove a screw which starts hard always use the ratchet to start same and then use the push; also in pushing in a screw push until you hang up and then ratchet in. After one handles the tool a few times and gets the different combinations he soon becomes an expert and saves many hours of time, and has a tool that no money will buy.

10th. To remove the blade just slip the thumb easily down over the spring, pulling on blade at same time. Same motion in removing a drill



IMPROVED NICKEL-PLATED FLOOR PUSH.

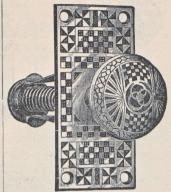


No. 1. Floor Push.

This is the most desirable foot-push made. The push is removable and has a shoulder to prevent the insulated body being pushed out in case it is stepped on. There is a hole clear through the body of the push, thus providing an escape for dust.

(Cut full size.)
Price, 50 cents.

ELECTRIC DOOR BELL PULLS.



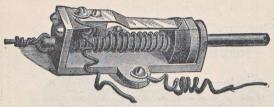
No. 3. A, Light Bronze; B, Dark Bronze; X, Inlaid.

No. 3 is a figured Bronze Pull, Light or Inlaid. Price, \$1.50.

Designed for connecting a mechanical door pull to ring an electric bell. It can be attached without displacing the bell-pull already in use, and may be arranged to operate both the mechanical and electric bells.

Price, 30 cents.

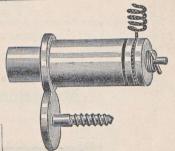
DOOR BELL-PULL ATTACHMENTS.



IMPROVED BURGLAR ALARM DOOR SPRING.

The most serviceable spring made and the easiest to put in. Large quantities are being sold.

Price, 25 cents.



BINDING POSTS, CONNECTORS, ETC.











PRICE LIST.

Style. Each.

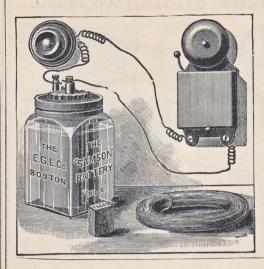
A .10

B .10

C .10

D .08

E .10



Samson Battery,
each, \$1.10

Push Button,
each, .75

Electric Bell,
each, .75

Insulated Wire,
per lb. .30

Electrician Staples,
per lb. .20

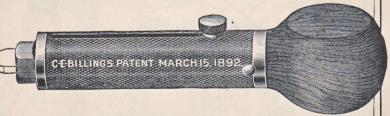
Screw-Drivers.



This figure shows the screw driver with the blade projected for use. It is entirely self-operating and only requires the use of one hand to instantaneously project or retract the blade.

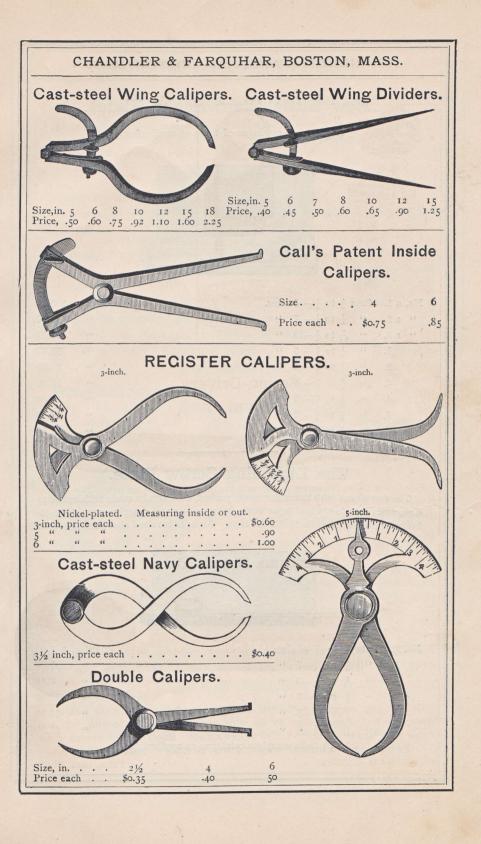
Price, 50 cents.

Magazine Screw-Driver.



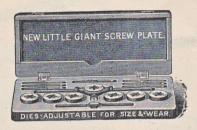
This is a neat, compact tool, containing four sizes of screw drivers within the handle, the blades are pivoted to the slide, and by raising the locking bolt and pressing forward the slide the blades will swing out. Select the size wanted, draw the slide back into the handle, and the driver is ready for use. Whole length when closed is $3\frac{\pi}{4}$ inches.

Price, each, \$1.00



New Little Giant Screw Plates.

(A complete catalogue of these on application.)



No.	a 1.	Cuts	18	to	1-5	sizes.	Pı	ice,	\$ 6.50
22	a 2.	"	18	to	1-7	"	AND THE RESERVE OF THE PARTY OF	"	8.00
46	a 3.	"	7 64	to	1-10	66		44	10.50
	1.	**	14	to	$\frac{1}{2}$ - 5	"		66	12.00
	2.	"	14	to	$\frac{3}{4}$ 5	"		66	13.50
	3.		5 8	to	1-4	"		46	15.00
	4.	"	1 2	to	1-5			86	17.50
	5.	"	1	to	$\frac{3}{4}$ 7			66	16.00
	6.		-		1-7			16	22.00

The Lightning Screw Plate.

The screws cut with it are far more perfect than can be made with ordinary dies, and equal to the best lathe work, being neatly and sharply cut in the bolts instead of being jammed out of the iron. No burr is raised above the true size.



No. O.	Cuts 1/8	to	1-5 s	izes.								Price,	\$ 5.50
0.	" 1	to	1-7	"								66	7.00
A.	" 3	to	⁷ ₁₆ —5	66								46	8.00
В.	" 1	to	3_7	"									16.00
C.	" 1	to	1-5	"								- 11	18.50
L.	11 4	to	1—9	"								46	27.50
			more		plet	e ca	talo	gue	on ap	pplicati	on.)		

Welch's Warranted Cement

Beats them all for mending China, Glass, Meerschaum, Wood, Leather, Porcelain, Bone, Ivory, Marble, and all kinds of Bric-a-Brac.

Per bottle, 25c.

Badger's Tripoli.

A superior article for polishing Gold, Silver, Brass, etc. Per box, 25c.

Elliott's Non-corrosive Soldering Fluid.

Small bottle, 10c. Large " 25c.

Kimball's Outside Metal Polish.

Used by Yachtsmen, House-keepers, Janitors, etc., gives a lustrous and durable polish.

Per can, 25c.

Witch City Machine Oil.

A first-class article put up in small bottles for Sewing Machines, etc.

Per bottle, 10c.



Price List

Perfect Leather

and Wood Fillets.

Great Labor-Saving Devices for Pattern Makers.

This leather fillet improves the appearance of castings fully 50 per cent. and is easily applied with glue or shellac to any corner, straight surface, single or compound curve, on old or new work. It is not affected by heat or moisture. No tacking or clamping necessary and no experience required.

 $\frac{1}{16}$ in. $\frac{1}{8}$ in. $\frac{3}{16}$ in. $\frac{1}{4}$ in. $\frac{5}{16}$ in. $\frac{3}{8}$ in. $\frac{1}{2}$ in. $\frac{5}{8}$ in. $\frac{3}{4}$ in. $\frac{7}{8}$ in. 1 in. Prices Per 100 ft. \$1.00 \$1.75 \$2.25 \$2.75 \$3.25 \$3.75 \$4.50 \$5.75 \$7.00 \$8.00 \$9.00

WOOD FILLET.

In Packages of one hundred feet each, four feet long.

 $\frac{1}{4}$ in $\frac{3}{8}$ in. $\frac{1}{2}$ in. $\frac{5}{8}$ in. $\frac{3}{4}$ in. 7 in. Per 100 ft. \$1.00 \$1.25 \$1.25 \$1.50 \$1.50 \$1.75 \$2.00

Light and Neat. Once Used, Always Used. Send for Samples, Free.

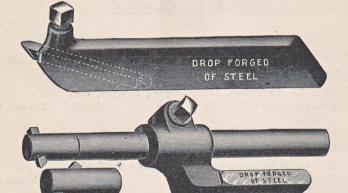
Save Your

BELTS
POWER
MACHINERY
BEARINGS

And increase your Product by the use of

A. O. C. BELT DRESSING. It is manufactured from the very best material known to modern science for the dressing and preserving of leather, greatly increasing its durability, giving to belts amooth, pliable and adhesive surface, without growing hard and glazing, thereby saving belts, power and wear of machinery bearings, also removing all deposits from the pulley and belt, increasing its driving capacity.

DIEC	or buck	ageo.							waren bereit
11	oound	can				-		-	30c.
5	4.	"	-		-		-		26c.
10	11	66		-		-			26c.
25	66	keg	-		-				24c.
50	. 66	"		-		-		-	22c.
100	- 66	"							20c.
One	half l	obl. (abo	ut s	200	lbs	.) 1	Sp	ecial price
	rel ab						1	on	application



Forging and tempering are entirely dispensed with.

It will work either right or left hand, and as there are no side projections it can be used close into a corner.

The rake of the cutter is such that it takes a clean curling chip from wrought iron or steel. No Top Grinding being necessary.

There is absolutely no slip to the cutter; it is supported directly under the strain of the cut, and will do as heavy work as any forged tool of the same size.

One pound of tool steel used in this holder equals ten pounds in the ordinary tool.

THE HOLDER

Is Drop-Forged of Steel and Case Hardened. The top and bottom is planed square with the sides. The hole for receiving the cutters is drilled and squared from the solid, insuring a straight and true seat. The Set-Screw is Tool Steel with tempered point.

THE CUTTERS

Are made of Special Self-Hardening Steel.

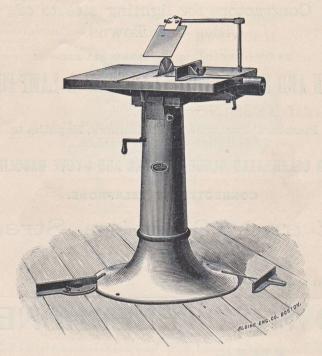
THE ARMSTRONG TOOL HOLDER. Strictly Net Price List. Complete with Wrench and Three Cutters.

No.	Size of Holder.	Size of Cutter.	Price Complete.	By Mail— Extra.	Extra Cutters.
0 1 2 3 4 5 6 7	%x %x 5 in. %x1 x 6 " %x1 \	3.16 in. Square. 1.4 " " 5.16 " " 3.8 " " 7.16 " " 1.2 " " 5.8 " " 3.4 " "	\$ 1.65 1.80 2.30 3.00 3.80 4.75 7 00 12.00	15 Cents. 20 " 35 " 55 " Express.	12 Cents Each. 15 " " 22 " " 30 " " 40 " " 50 " " 75 " " \$1.50 Each.

THE ARMSTRONG BORING TOOL.

No.	Size of Shank.	Size of Bar.	Size of Cutter.	Price Complete.	Extra Cutters. Ground for Boring.
8	% in. x ¾ in.	9-16 in. Round.	5-16 in. Square.	\$3.00	12 Cents Each.
9	½ in. x 1 in.	¾ in. Round.		3.60	15 "
10	% in. x 1¼ in.	15-16 in. Round.		4.75	20 "
11	¾ in. x 1½ in.	1½ in. Round.		6.75	30 "

G. A. WALKER MACHINE CO.



Improved Saw Bench,

For Electrotypers and Metal Workers.

This Saw Bench is made entirely of iron and is of the best workmanship. It stands 3 feet high with perfectly level table 2 feet by 2 feet 2 inches wide; is provided with an adjusting screw for raising and lowering. The fence-guage slot is ruled off to quarter inches. The saw arbor is made of the best crucible steel to carry an 8 inch saw with 1 inch hole. Weight 285 lbs.

This Saw Bench is especially adapted for Electrotypers and Metal Workers, and pronounced by establishments now using them to be the *best* and the *cheapest saw bench* in the market for the purposes for which it is intended.

PRICE \$75 WITHOUT, \$87 WITH COUNTER SHAFT.

G. A. WALKER MACHINE CO.,

35 Sudbury St., Boston.

Mention This Catalogue.

GLOBE GAS LIGHT CO.,

Contractors for lighting streets of Cities and Towns.

MANUFACTURERS AND DEALERS IN ALL KINDS OF

PLAIN AND FANCY STREET LANTERNS & LAMP POSTS

_ ALSO _

Plumbers' Furnaces, Paint Burners, Naphtha or Gasoline and Oil Torches.

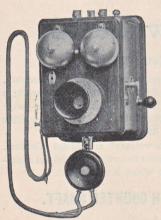
OUR CELEBRATED GLOBE NAPHTHA AND STOVE GASOLINE.

CONNECTED BY TELEPHONE.

77 and 79 Union Street, BOSTON. MASS.

Mention This Catalogue.

OWN A TELEPHONE.



And connect your residence with the Stable, Greenhouse, Cottage or other buildings on your estate.

Though cheap, this is a practical instrument, easily put up and gives perfect service.

They are used in hundreds of Large Business Houses, Factories and Dwellings.

Send for Descriptive Circular.

ESTIMATES GLADLY FURNISHED.

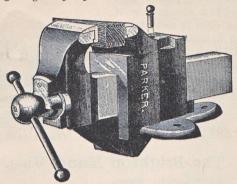
Murdock & Taber,

185 FRANKLIN ST., BOSTON, MASS.

Mention This Catalogue.

Parker's Patent Parallel Victor Vises.

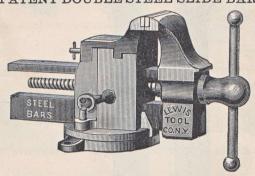
These Vises have self-adjusting back jaws, which automatically adapt themselves for holding wedge shaped pieces.



							PLAIN	BASE.		SWIVE	L BASE.
No.						We	eight.	each.	We	ight.	each.
370	Length	of	Jaws.	31	in.	25	lbs.	\$ 6.50	30	lbs.	\$ 7.00
371	"	66	ii	35	6.6	39	66	7.00	42		8.50
372	4.6	66	6.6	41	6.6	57	44	10.00	60	46	12.50
373		66	66	5	46	73	66	14.00	78	46	16.00
374	**	6.6	"	51	66	98	46	17.00	110	66	19.00
375		266		$6\frac{1}{4}$	66 .	150	44	24.00	165	44	27.00

The Steel Faces of these Vices are Milled and fitted to the Jaws, and are renewable at a trifling cost.

LEWIS' PATENT DOUBLE STEEL SLIDE BAR VISES.



			PLAIN	BASE.	SWIVEI	BASE.
No.	Width Jaw.	Opens.	Weight.	Each.	Weight.	Each.
3	2½ in.	3½ in.	18 lbs.	\$ 5.50	22 lbs.	\$ 6.75
5	3 "	4 "	25 "	6.25	29 "	7.50
7	31 "	5 "	33 "	7.00	38 "	8.50
9	4 "	6 "	54 "	9.00	60 "	10.50
11	41 66	7 "	70 "	10.50	78 "	12.50
13	5 "	8	105 "	16.00	120 "	18.00
15	51 "	9 . "	125 "	18.00	142 "	21.00
17	61 "	10 "	165 "	24.00	185 "	27.00
19	71 "	12 "	198 "	30.00	225 "	35.00

Complete catalogues of above vises on application.

The Eclipse Scraper.

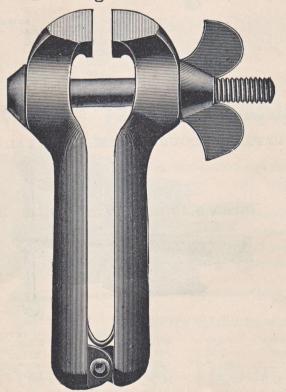
In introducing this tool to the carpenters and woodworkers generally, we feel we are supplying a long felt want for a handy and efficient scraper; one that can be used in almost every place where one would have occasion to use such a tool. It is very effective on hard wood floors, as it will do more and better work, and much easier, than any other scraper on the market.

Price, \$1.50.



[Patent Applied For.]

The Brighton Hand Vise.



This Vise is a casting nicely japanned, with a heavy spring inside to open the jaws, which are closed with a bolt and nut, as seen in the cut. It has a blue finish on the jaws.

Length,	4 in.	$4\frac{1}{4}$ in.	$4\frac{3}{4}$ in.
Width of jaw,	1 in.	$1\frac{1}{4}$ in.	$1\frac{3}{8}$ in.
Price, each,	\$.20	.25	30

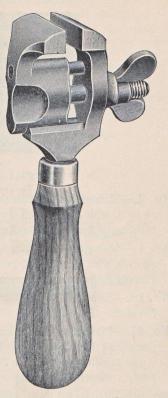
The "Boss" Hand Vise.

The jaws are 1¹/₄ inch wide, length of tool over all 6 inch, and opens ³/₄ inch—weighs 8 oz.

The jaws opening parallel it will grip firmer than the old style of vise, it is strong and well made, and at its extremely low price for so good an article, it has had a large sale.

This vise is all steel hardened throughout and finely finished with polished jaws.

Price, 60 Cents.



Carew's Patent Wire Cutter.



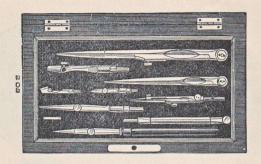
MADE THROUGHOUT OF FORGED STEEL.

The adjustable jaws are the main feature, these are made of the best tool steel and are brought to a cutting edge before being tempered. The cutting quality is unsurpassed.

Whenever they become dulled by use, they can be removed readily by driving from the end showing prick marks, and replaced after ground, thus obviating the necessity of buying new cutters.

Length,	6 in.	8 in.	10 in.	12 in.	14 in.
Price,	\$1.75	\$2.00	\$2.25	\$2.60	\$3.00
Extra Jaws,	.50	.55	.60	.65	.70

MATHEMATICAL INSTRUMENTS.



INSTRUMENTS IN CASES.

No. 3.—Mahogany Case, containing 7 pieces, Brass, 1 pair Compasses,
44 inch, with Pen, Pencil Points, and Lengthening Bar; I Crayon
Holder; 1 Protractor; 1 Rule. Price, each, \$0 75
No. 4.—Mahogany Case, containing 8 pieces, Brass, 1 pair Compasses,
44 inch, with Pen, Pencil Points, and Lengthening Bar; 1 Drawing
Pen; 1 Protractor; 1 Crayon Holder; 1 Rule. Price, each, 1 00
No. 18. —Same as No. 4, but with $5\frac{1}{2}$ inch Compasses and $4\frac{1}{4}$ inch
Dividers. Price, each,
No. 47.—Mahogany Case, containing 12 pieces, Brass, 1 pair Com-
passes, 4½ inch, with Pen, Pencil Points, and Lengthening Bar;
1 pair Dividers, 3½ inch; 1 Bow Pen, with Pencil Point; 1 Drawing
Pen; 1 Protractor; 1 Key; 1 Rule. Price, each, 200
No. 90.—Rosewood Case, with Lock and Tray, containing 14 pieces,
Brass, I pair Compasses, 64 inch, with Pen, Pencil Points, and
Lengthening Bar; 1 pair Compasses, 3½ inch, with Pen and Pencil
Points; 1 pair Dividers, 41 inch; 1 Bow Pen, with Pencil Point;
1 Drawing Pen; 2 Protractors; 1 Key; 1 Rule. Price, each, . 3 50
No. 52.—Rosewood Case, with Lock and Tray, containing 13 pieces,
Brass, 1 pair Compasses, 64 inch, with Pen, Pencil Points, and
Lengthening Bar; I pair Dividers, 44 inch; I Bow Pen, Pencil and
Needle Point; 1 Drawing Pen; 1 Protractor; 1 Proportional
Divider; 1 Rule; 1 Key. Price, each, 5 00
No. 180.—Rosewood Case. with Lock and Tray, containing 16 pieces,
GERMAN SILVER, 1 pair Compasses, 64 inch, with Needle Point,
with Pen, Pencil Points, and Lengthening Bar; 1 pair Compasses,
with Needle Point, 44 inch, with Pen and Pencil Point; 1 pair
4½ inch Dividers; 1 Spring Bow Pen; 1 Drawing Pen; 1 Pro-
tractor; 2 Lead Holders; 1 box Leads; 1 Rule; 1 Key. Price, . 8 00
ALSO. A LARGE LINE OF SEPARATE INSTRUMENTS, AND OTHER ARTICLES.

Greene's Mineral Paste,

For Silver-Plated Ware and Gold.

This paste does the work without scouring or scratching. Even the finest polished surfaces, which are ruined by other polishes, are left perfect where this is used.

The leading Hotels and principal Dining rooms of the country endorse this as the best, and it has found its way into thousands of homes.

Price, 4 oz. box, 25c.

12 oz. box, 50c.

The "Universal" Plyer.



The Universal or Combination Plyer as its name implies, is a combination of several tools in one, viz: a flat nose plyer, side cutting plyer, gas plyer, nut wrench, two wire cutters, screw driver and reamer, thus making it one of the most useful tools in the market.

It is made of the finest French Steel, polished and fully warranted. Its utility is so great that it is not confined to any particular branch of trade, and is a most desirable tool for everybody.

Length, 7 inches.

Price, \$1.15.

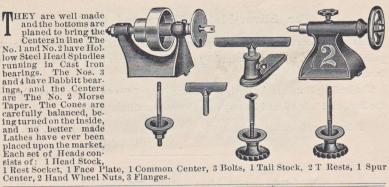
Edge's Bevel Back Band Saw.

All factories doing fine scroll sawing should use this style of saw—large sales and numerous testimonials justify us in offering the Bevel Back as the best Band Saw made.

Length,	Width,	1 4	3 8	1 2	<u>5</u> 8
15 ft.		\$1.50	\$1.65	\$1.90	\$2.10
16 ft.		1.60	1.75	2.00	2.25
17 ft.		1.70	1.85	2.15	2.40
18 ft.		1.80	1.95	2.25	2.50
19 ft.		1.90	2.10	2.40	2.65
20 ft.		2.00	2.20	2.50	2.80

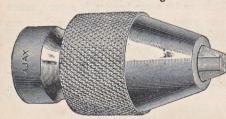
Cheap Lathe Heads.

HEY are well made and the bottoms are planed to bring the Centers in line The
No. 1 and No. 2 have Hollow Steel Head Spindles running in Cast Iron bearings. The Nos. 3 and 4 have Babbitt bearand the Centers are The No. 2 Morse Taper. The Cones are carefully balanced, being turned on the inside,



		No. of	Width	1	Pri	ice of T	urned E	alance aft Boxes	Pri	ce of Cour	iter Shaft.
No.	Swing.	Speeds on Cone	of Belt.	Price.	e. Wheels including Shaft Boxes and Crank for operating Lathe by Foot Power.					Size of T Pulleys	&L Price
1 2 3 4	6 in. 8 " 11 " 13 "	2 2 3 4	1 inch. 1½ " 1½ " 1½ "	\$10.00 15.00 20.00 30.00	No. 1 2 3	Dia. 20 22 22	Wgt. 30 40 60	Price. \$ 8.00 10.00 13.00	1 2 3 4	3x1 4x1½ 5x2 6x3	\$ 7.00 8.00 10.00 12.00

The "Ajax" Drill Chuck.



The Best Small Drill Chuck ever produced. Made entirely of Steel, with hardened Jaws. Holds from the smallest up to full 16 inch Drills. Will do the work of the higher-priced Chucks. Will be sent by mail on receipt of price.

Price, \$3.00 each.

Peavey's Giant Bench Punch.



This machine is for the use of metal workers. Its power is obtained by the use of the friction roll and cam, which works either way. It is 10 inches high, 8½ long, with lever 20 inches in length, and weighs 28 pounds.

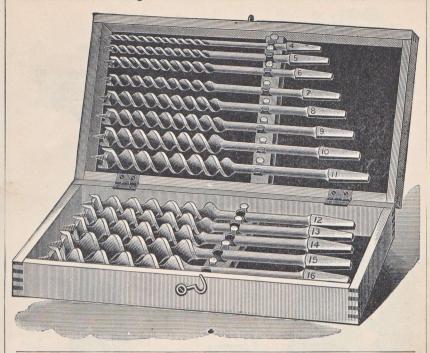
It will punch a hole 5-16 through \(\frac{1}{8} \) inch iron plate 3 inches from edge. It is neat, strong and durable.

The working parts should be kept well oiled.

PRICE.

No. 1, with dies for one size hole, Extra dies for round hole, per set, \$15.00

EXTRA QUALITY AUGER BITS.



THE FORSTNER NEW IMPROVED AUGER BIT.



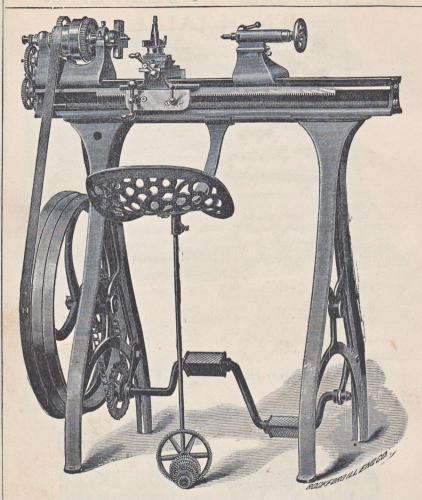
Sizes: 3-8, 7-16, 4-8, 9-16, 5-8, 11-16, 6-8, 13-16, 7-8, 15-16, 8-8, 9-8 10-8, 11-8
Price Each, Brace Bit, 45c 55c 55c 68c 68c 80c 80c 92c 92c \$1.05 \$1.05 \$1.15 \$1.25 \$1.35

"Machine Bit, 65c 75c 75c 88c 88c \$1.00 \$1.00 \$1.12 \$1.12 \$1.25 \$1.25 \$1.37 \$1.45 \$1.50

Will not deviate for knots or cracks; will bore equally well with the grain; does not split the wood, however close to the edge; makes a hole as true and polished as a Gun Barrel; is invaluable for mortising, such as letting in Door Locks, etc., as it takes the place of Chisel and Gouge, and as a Machine Bit it has no Equal.

It will bore a small hole larger, or make a hole already bored, oblong, oval or square. It will enter the wood at any angle, and from any direction, and is the only Round Bit in the world that will bore a Square Hole for letting in Bolt Heads, etc.

TOOLS OF ALL KINDS.



BARNES NEW SCREW-CUTTING LATHE.

No. 41/2.

This Lathe is a back-geared, screw-cutting Lathe. It feeds right or left, and cuts screws right or left, without change of gearing. The carriage is adjustable for taper boring or ball turning. It is thoroughly gibbed for taking up wear.

The tail stock has side movement to adjust centers for turning tapers. The head stock has hollow spindle for rods up to § inch. All the gearing is cut from solid metal. All parts are made of steel where this would best serve the purpose.

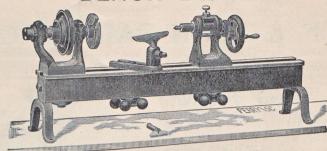
It will cut all ordinary threads from 5 to 48, and miscellaneous threads up to 154. It swings 9 inches and takes 25 inches between centers. It swings 4\frac{3}{4} inches over tool carriage.

The small pulley on cone is $2\frac{1}{2}$ inches; the large pulley $4\frac{1}{2}$. It has three speeds, and is suitably arranged for heavy or light work in turning or polishing.

The Lathe weighs 255 pounds; boxed, ready for shipment 325 pounds.

Price of the Lathe is \$70.00. With old style treadle, same price.

BENCH LATHE.



The above cut represents a small Bench Lathe which we are now manufacturing, the dimensions of which are as follows:

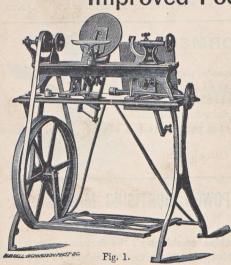
Bed, 24 in. long. Swing, 61 in. Distance between Centres, 14 in. We also make the same Lathe with Bed 36 in. long, which will take between Centres 26 inches.

For light drilling and polishing, these Lathes will take the place, at a great saving in many cases, of the larger and more expensive tools in general use.

PRICE LIST.

Bench Lathe, as above, with 24 in. Bed	\$10.00
" " " 36 in. Bed	
Countershaft \$6.00 Extra Face Plates	
Drill Chucks, fitted to Lathe to hold Drills from 1 inch, down	4.00
Spur Centre for wood 1.00 Screw Chuck for wood .	1.00
Crotch Centre for drilling 1.00 Drill Pad for Tail Stock .	.75
Arbor, with Nut and Flanges for Circular Saw or Emery Wheel	1.50

Improved Foot Lathe.



For Turning, Scroll and Circular Sawing, Boring, Drilling, Grooving, Polishing, etc., for the use of amateurs and artists.

This represents the Lathe with the Scroll and Circular Saw Attachments. The cut shows the Sawing Attachments thrown back, and the Lathe in position for turning.

This Lathe has been much improved since it was first put on the market, and we consider it equal to any tool made at the same price; it is now made with a Hollow Spindle, § hole, and a Drawer in the Table, without extra charge.

We have two sizes of these Lathes as follows:

No. 1 Lathe has 30 in. bed and will turn 18 in. long and 8 in. diameter. Price, with Scroll and Circular Saw Attachments, \$45.

No. 2 Lathe has 48 in. bed and will turn 36 in. long and 8 in. diameter.

Price, with both Scroll and Circular Saw Attachments,

\$55,

Plain Lathe, with table, 30 in., \$30.

Scroll Saw Attachments, 5. Circular " 10.

SOLE NEW ENGLAND AGENTS

—FOR—

W. F. & JOHN BARNES CO.

(Send for Large Catalogue.)

No. 7 SAW.

We warrant it well made, of good material and workmanship, and with reasonable practice will saw Pine three inches thick, one foot a minute; swings around the blade, 24 inches.

Price.

\$15.00.





COMBINED MACHINE.

This Machine combines the No. 7 Scroll Saw and a Circular Saw. The two Machines can be put in one, ready for use either way, in one minute; and each will do its work with absolute success.

PRICES.

	LICIL			
Circular Saw, alone,		-		\$35.00
Circular and Scroll Saw,			-	40.00
Circular, Scroll, and Boa	ring	Attachn	nent,	50.00

FOOT-POWER FORMER.

For moulding the edges of brackets, panel-work, etc., regular and irregular mouldings of all styles up to 7-8 in. The speed of the knives is about 2500 per minute. Articles that look very plain can be made elegant and costly in appearance by the perfect work of this Machine.

Price.

\$20.00.





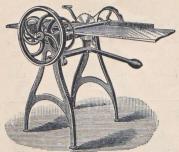
FOOT - POWER MORTISING MACHINE.

This Machine combines all the features necessary for a perfect Mortising Machine. It has great range for work, power on the chisel, and all required adjustments which are easily and quickly made.

Price, \$22.00.

Chisels, \$1.00 each.

HAND RIP SAW.



This Machine will rip boards of any thickness up to 3 1-4 inches, and width to 19 inches.

The lumber is placed between two feed rollers which feed it to the saw. The feed can be made slow or fast as the operator may desire, by the cone pulleys on feed rolls. An operator can easily rip 600 feet of one-inch pine per hour.

The table is provided with an adjustable gauge to raise and lower for rabbets, bevels, etc.

Price,

\$50.00.

LATHE No. 4.

This Lathe is designed for turning both wood and iron, and for boring, drilling, etc., etc.

It is not an amateur tool, but is strictly mechanical in every respect.

It will take in work 7 inches in diameter and 20 inches long. The leading screw for the tool carriage is operated by hand, by it the tool carriage can be travelled 20 inches. The carriage can be engaged or disengaged instantly from the screw.

The head stock spindle has taper bearings, and can be adjusted with as much delicacy as a jeweller's lathe.

Price.

\$40.00.

LATHE No. 5.

This Lathe swings II inches diameter and 34 inches long, with its back gearing and cone pulleys the Lathe has a great range of speed.

It is thoroughly and substantially built, and the head stock has a 15-32 hole through its entire length.

The tool carriage is a model of convenience and accuracy, and is gibbed to the bed.

As a right or left screw-cutting Lathe, it is simply perfect.

Price, - - \$100.00.

All the larger sizes of Lathes and Upright Drills we keep constantly in stock.

GRINDSTONES.



(MOUNTED WITH CRANK FOR HAND.)

Diameter, inches,	6	8	10	12
Price,	\$1.20	1.50	1.75	2.00

CRINDSTONES NOT MOUNTED.

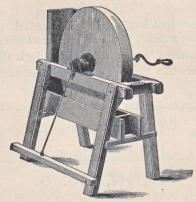
Diameter, inches, .		4	6	8	10	12
Price, each,		\$0.50	.65	.85	1.00	1.25

ORANGE OIL GRINDSTONES.

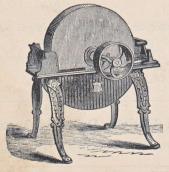
Diameter, inches,			 	3	4	6	8
Price, each, .				\$0.60	.80	1.00	1.20

MOUNTED GRINDSTONES.

(WITH TREADLE FOR FOOT POWER.)



Diameter, inches,			16	18	20	24
Price,			\$4.50	5.00	5.50	6.00



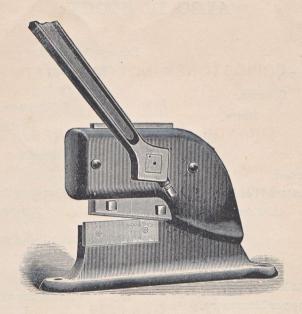
IMPROVED IRON GRINDSTONE FRAMES,

(WITH STONE COMPLETE.)

Size of Stone, 30 X 4 inches.

Price with Pulley for Power, . \$20.00

THE "FEDERAL" BENCH SHEAR.



The "Federal" shear we confidently believe to be the best in the market. It is strong, compact and well-made, of good design and will cut sheets or bars not exceeding 3-16 inch thick.

Stands only 8 inches high and weighs 30 lbs.

PRICE, \$15.00 EACH.

Chandler & Farquhar,

34, 36 & 38 FEDERAL ST.,

BOSTON, MASS.

ALSO IN STOCK:

Drills,

Taps,

Screws,

Bolts.

77:---

Vises,

Wrenches,

Cotton Waste,

Lathes,

Planers,

Chests,

Babbitt Hammers,

Copper Hammers,

Milling Cutters,

Fan Motors,

all Moors,

Batteries,

Rope,

Emery Grinders,

Cut Gears,

Calipers,

Dividers,

Grindstones.

Forges,

Emery Wheels,

Lathe Dogs,

Punches & Shears,

Screw Plates,

Oilers,

Circular and Band Saws,

Files.

Piano Wire,

· Sheet Brass & Steel,

Brass, Copper & Steel Wire,

Brass Rod & Tubing,

Bessemer Rods,

Tool Steel,

Spring Cotters,

Chains,

Ratchets,

Jack Screws,

Hack Saws,

Chucks,

Babbitt,

&c., &c.

Iron & Copper Rivets,

Pocket Cutlery,

Skates,

Bicycles,

Tool Chests,

&c., &c.





Samson Braided Cord.



SAMSON SPOT CORD.

Sash Cords, Mason Lines, Chalk Lines, Arc Lamp Cords, Trolley Cords, Waterproofed.

SAMSON CORDAGE WORKS

BOSTON, MASS.

MENTION THIS CATALOGUE.